H.R. 4755

IN THE SENATE OF THE UNITED STATES

APRIL 30, 2024

Received; read twice and referred to the Committee on Commerce, Science, and Transportation

AN ACT

To support research on privacy enhancing technologies and promote responsible data use, and for other purposes.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,

1 SECTION 1. SHORT TITLE.

- This Act may be cited as the "Privacy Enhancing
- 3 Technology Research Act".
- 4 SEC. 2. PRIVACY ENHANCING TECHNOLOGY.
- 5 (a) National Science Foundation Support of
- 6 RESEARCH ON PRIVACY ENHANCING TECHNOLOGY.—The
- 7 Director of the National Science Foundation, in consulta-
- 8 tion with the heads of other relevant Federal agencies (as
- 9 determined by the Director), shall support merit-reviewed
- 10 and competitively awarded research on privacy enhancing
- 11 technologies, which may include the following:
- 12 (1) Fundamental research on technologies for
- de-identification, pseudonymization, anonymization,
- or obfuscation to mitigate individuals' privacy risks
- in data sets while maintaining fairness, accuracy,
- and efficiency.
- 17 (2) Fundamental research on algorithms and
- other similar mathematical tools used to protect in-
- dividual privacy when collecting, storing, sharing,
- analyzing, or aggregating data.
- 21 (3) Fundamental research on technologies that
- promote data minimization in data collection, shar-
- ing, and analytics that takes into account the trade-
- offs between the data minimization goals and the in-
- 25 formational goals of data collection.

- 1 (4) Research awards on privacy enhancing tech-2 nologies coordinated with other relevant Federal 3 agencies and programs.
 - (5) Supporting education and workforce training research and development activities, including retraining and upskilling of the existing workforce, to increase the number of privacy enhancing technology researchers and practitioners.
 - (6) Multidisciplinary socio-technical research that fosters broader understanding of privacy preferences, requirements, and human behavior to inform the design and adoption of effective privacy solutions.
 - (7) Development of freely available privacy enhancing technology software libraries, platforms, and applications.
 - (8) Fundamental research on techniques that may undermine the protections provided by privacy enhancing technologies, the limitations of such protections, and the trade-offs between privacy and utility required for the deployment of such technologies.
 - (9) Fundamental research on technologies and techniques to preserve the privacy and confidentiality of individuals from unconsented, unwanted, or

- 1 unauthorized location tracking, including through
- 2 GPS.
- 3 (b) Integration Into the Computer and Net-
- 4 WORK SECURITY PROGRAM.—Subparagraph (D) of sec-
- 5 tion 4(a)(1) of the Cyber Security Research and Develop-
- 6 ment Act (15 U.S.C. 7403(a)(1)(D)) is amended by in-
- 7 serting ", including privacy enhancing technologies" be-
- 8 fore the semicolon.
- 9 (c) Coordination With the National Institute
- 10 of Standards and Technology and Other Stake-
- 11 Holders.—
- 12 (1) IN GENERAL.—The Director of the Office of
- 13 Science and Technology Policy, acting through the
- 14 Networking and Information Technology Research
- and Development Program, shall coordinate with the
- Director of the National Science Foundation, the Di-
- 17 rector of the National Institute of Standards and
- 18 Technology, the Federal Trade Commission, and the
- 19 heads of other Federal agencies, as appropriate, to
- accelerate the development, deployment, and adop-
- 21 tion of privacy enhancing technologies.
- 22 (2) Outreach.—The Director of the National
- Institute of Standards and Technology shall conduct
- 24 outreach to—

- 1 (A) receive input from private, public, and 2 academic stakeholders on the development of 3 privacy enhancing technologies; and
- 4 (B) facilitate and support ongoing public and private sector engagement to inform the 6 development and dissemination of voluntary, 7 consensus-based technical standards, guidelines, 8 methodologies, procedures, and processes to 9 cost-effectively increase the integration of pri-10 vacy enhancing technologies in data collection, 11 sharing, and analytics performed by the public 12 and private sectors.
- 13 (d) Report on Privacy Enhancing Technology RESEARCH.—Not later than three years after the date of 14 15 the enactment of this Act, the Director of the Office of Science and Technology Policy, acting through the Net-16 working and Information Technology Research and Devel-17 opment Program, shall, in coordination with the Director 18 19 of the National Science Foundation, the Director of the 20 National Institute of Standards and Technology, and the 21 heads of other Federal agencies, as appropriate, submit to the Committee on Commerce, Science, and Transpor-23 tation of the Senate, the Subcommittee on Commerce, Justice, Science, and Related Agencies of the Committee 25 on Appropriations of the Senate, the Committee on

- 1 Science, Space, and Technology of the House of Rep-
- 2 resentatives, and the Subcommittee on Commerce, Jus-
- 3 tice, Science, and Related Agencies of the Committee on
- 4 Appropriations of the House of Representatives, a report
- 5 containing information relating to the following:
- 6 (1) The progress of research on privacy enhanc-
- 7 ing technologies.
- 8 (2) The progress of the development of vol-
- 9 untary resources described under subsection
- 10 (c)(2)(B).
- 11 (3) Any policy recommendations that could fa-
- cilitate and improve communication and coordination
- between the private sector and relevant Federal
- agencies for the implementation and adoption of pri-
- vacy enhancing technologies.
- 16 (e) Protecting Personal Identifying Informa-
- 17 Tion.—Any personal identifying information collected or
- 18 stored through the activities authorized under this section
- 19 shall be done in accordance with part 690 of title 45, Code
- 20 of Federal Regulations (relating to the protection of
- 21 human subjects), or any successor regulation.
- 22 (f) Definition.—In this section, the term "privacy
- 23 enhancing technology"—
- 24 (1) means any software or hardware solution,
- 25 technical process, or other technological means of

1	mitigating individuals' privacy risks arising from
2	data processing by enhancing predictability, manage-
3	ability, disassociability, and confidentiality; and
4	(2) may include—
5	(A) cryptographic techniques for facili-
6	tating computation or analysis on data while
7	mitigating privacy risks;
8	(B) techniques for—
9	(i) publicly sharing data without ena-
10	bling inferences to be made about specific
11	individuals;
12	(ii) giving individuals' control over the
13	dissemination, sharing, and use of their
14	data; and
15	(iii) generating synthetic data; and
16	(C) any other technology or approach that
17	reduces the risk of re-identification, including
18	when combined with other information.
	Passed the House of Representatives April 29, 2024.
	Attest: KEVIN F. MCCUMBER,
	Clerk.